

RESPONSE AFTER FINAL REJECTION
EXPEDITED PROCEDURE - RULE 116

Application No. 10/670,580
Attorney Docket No.: 62105.US
Client Docket No.: EI-7602

AMENDMENTS TO THE CLAIMS

1-10. (Canceled)

11. (Previously Presented) An oil soluble lubricant additive package comprising:

(a) a dispersant comprising no more than about 500 ppm of phosphorus, wherein said dispersant is substantially free of boron;

(b) at least one inhibitor, wherein the weight ratio of said inhibitor to said dispersant is from about 1:17 to about 4:5; and

(c) an extreme pressure additive, wherein the weight ratio of said dispersant to said extreme pressure additive is from about 1:7 to about 1:2, and wherein the total phosphorus content of the package is not more than about 500 ppm.

12. (Original) The oil soluble lubricant additive package according to claim 11, wherein said dispersant is selected from the group consisting of: one or more of various types of ashless dispersants including succinimides, succinamides, succinic esters, and succinic ester-amnides.

13. (Original) The oil soluble lubricant additive package according to claim 11, wherein at least one said inhibitor is selected from the group consisting of: corrosion inhibitors and oxidation inhibitors.

14. (Original) The oil soluble lubricant additive package according to claim 11, wherein at least one said inhibitor is selected from the group consisting of thiadiazoles and triazoles.

15. (Original) A lubricating oil comprising:

(a) a base oil; and

(b) the oil soluble lubricant additive package of claim 11.

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16. (Original) The lubricating oil according to claim 15, wherein said lubricating oil achieves a satisfactory score on at least one test selected from the group consisting of: ISOT test and L60-1 test.

17. (Original) A machine lubricated by the lubricating oil of claim 15.

18. (Original) The machine according to claim 17, wherein said machine is selected from the group consisting of automotive gear assemblies and automotive transmission assemblies.

19. (Original) A vehicle comprising the oil soluble lubricating additive package of claim 11.

20. (Original) A method for lubricating an axle assembly, said method comprising the steps of:

at least partially filling said axle assembly with a lubricant comprising the oil soluble lubricant additive package of claim 11.

21. (Original) A method for lubricating at least one moving part, said method comprising the steps of:

contacting at least one said moving part with a lubricant comprising the oil soluble lubricant additive package of claim 11.

22. (Previously Presented) An oil soluble lubricant additive package comprising:

(a) a dispersant comprising no more than about 500 ppm of phosphorus, wherein said dispersant is substantially free of boron; and

(b) at least one antiwear agent, wherein the weight ratio of said dispersant to said antiwear agent is from about 10:1 to about 2:1, and wherein the total phosphorus content of the package is not more than about 500 ppm.

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23. (Original) The oil soluble lubricant additive package according to claim 22, wherein said dispersant is selected from the group consisting of: one or more of various types of ashless dispersants including succinimides, succinamides, succinic esters, and succinic ester-amides.

24. (Original) The oil soluble lubricant additive package according to claim 22, wherein at least one antiwear agent is selected from the group consisting of: dihydrocarbyl polysulphides; sulphurized olefins; sulphurized fatty acid esters of both natural and synthetic origins; trithiones; sulphurized thienyl derivatives; sulphurized terpenes; sulphurized oligomers of C2 -C8 monoolefins; and sulphurized Diels-Alder adducts.

25. (Original) A lubricating oil comprising:

- (a) a base oil; and
- (b) the oil soluble lubricant additive package of claim 22.

26. (Original) The lubricating oil according to claim 25, wherein said lubricating oil achieves a satisfactory score on at least one test selected from the group consisting of: ISOT test and L60-1 test.

27. (Original) A machine lubricated by the lubricating oil of claim 25.

28. (Original) The machine according to claim 27, wherein said machine is selected from the group consisting of vehicular axle gears and vehicular transmission gears.

29. (Original) A vehicle comprising the oil soluble lubricating additive package of claim 22.

30. (Original) A method for lubricating an axle assembly, said method comprising the steps of:

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at least partially filling said axle assembly with a lubricant comprising the oil soluble lubricant additive package of claim 22.

31. (Original) A method for lubricating at least one moving part, said method comprising the steps of:

contacting at least one said moving part with a lubricant comprising the oil soluble lubricant additive package of claim 22.

32. (Previously Presented) An oil soluble lubricant additive package comprising:

(a) a dispersant comprising no more than about 500 ppm of phosphorus, wherein said dispersant is substantially free of boron; and

(b) at least one antifoam agent, wherein the weight ratio of said dispersant to said antifoam agent is from about 30:1 to about 5:1, and wherein the total phosphorus content of the package is not more than about 500 ppm.

33. (Original) The oil soluble lubricant additive package according to claim 32, wherein said dispersant is selected from the group consisting of: one or more of various types of ashless dispersants including succinimides, succinamides, succinic esters, and succinic ester-amides.

34. (Original) The oil soluble lubricant additive package according to claim 32, wherein at least one antifoam agent is selected from the group consisting of siloxane-containing polymers.

35. (Original) A lubricating oil comprising:

(a) a base oil; and

(b) the oil soluble lubricant additive package of claim 32.

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36. (Original) The lubricating oil according to claim 35, wherein said lubricating oil achieves a satisfactory score on at least one test selected from the group consisting of: ISOT test and L60-1 test.

37. (Original) A machine lubricated by the lubricating oil of claim 35.

38. (Original) The machine according to claim 37, wherein said machine is selected from the group consisting of: vehicular axle gears and vehicular transmission gears.

39. (Original) A vehicle comprising the oil soluble lubricating additive package of claim 32.

40. (Original) A method for lubricating an axle assembly, said method comprising the steps of:
 at least partially filling said axle assembly with a lubricant comprising the oil soluble lubricant additive package of claim 32.

41. (Original) A method for lubricating at least one moving part, said method comprising the steps of:
 contacting at least one said moving part with a lubricant comprising the oil soluble lubricant additive package of claim 32.

42. (Canceled)

43. (Previously Presented) The lubricating oil according to claim 15, wherein said lubricating oil achieves a satisfying score on the ISOT test and the L60-1 test.

44. (Previously Presented) The lubricating oil according to claim 25, wherein said lubricating oil achieves a satisfying score on the ISOT test and the L60-1 test.

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45. (Previously Presented) The lubricating oil according to claim 35, wherein said lubricating oil achieves a satisfying score on the ISOT test and the L60-1 test.

46. (New) A method for achieving a satisfying score on the ISOT test and the L-60-1 test with a lubricating oil substantially free of boron, wherein the lubricating oil comprises:

(a) a dispersant comprising no more than about 500 ppm of phosphorus, wherein said dispersant is substantially free of boron;

(b) at least one inhibitor, wherein the weight ratio of said inhibitor to said dispersant is from about 1:17 to about 4:5; and

(c) an extreme pressure additive, wherein the weight ratio of said dispersant to said extreme pressure additive is from about 1:7 to about 1:2, and wherein the total phosphorus content of the package is not more than about 500 ppm.

47. (New) A method for achieving a satisfying score on the ISOT test and the L-60-1 test with a lubricating oil substantially free of boron, wherein the lubricating oil comprises:

(a) a dispersant comprising no more than about 500 ppm of phosphorus, wherein said dispersant is substantially free of boron; and

(b) at least one antiwear agent, wherein the weight ratio of said dispersant to said antiwear agent is from about 10:1 to about 2:1, and wherein the total phosphorus content of the package is not more than about 500 ppm.

48. (New) A method for achieving a satisfying score on the ISOT test and the L-60-1 test with a lubricating oil substantially free of boron, wherein the lubricating oil comprises:

(a) a dispersant comprising no more than about 500 ppm of phosphorus, wherein said dispersant is substantially free of boron; and

(b) at least one antifoam agent, wherein the weight ratio of said dispersant to said antifoam agent is from about 30:1 to about 5:1, and wherein the total phosphorus content of the package is not more than about 500 ppm.